JC10 Rec'd PCT/PT0 1 9-TA 139 Rre 2005;
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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## TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION LINDER 35 U.S.C. 374

ATTORNEY'S DOCKET NUMBER 20030076-US

U.S. APPLICATION NO. (If known see 37 GFR 1.5)

		DIA DIADEK 33 0.3.C. 37 I	10/551//7					
PC1/	ATIONAL APPLICATION NO. JS2003/038190	INTERNATIONAL FILING DATE 25.11.2003 (25 NOV 2003)	PRIORITY DATE CLAIMED 14.04.2003 (14 April 2003)					
JOINT SYMBOL, AMPLITUDE, AND RATE ESTIMATOR								
APPLICANT(S) FOR DO/EO/US MCELWAIN,Thomas P.								
Applican	t herewith submits to the United St	ates Designated/Elected Office (DO/EO	/US) the following items and other information:					
1.								
2.	This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.							
3.	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.							
4.	The US has been elected (Article 31).							
5.	A copy of the International Application as filed (35 U.S.C. 371(c)(2))							
	a. is attached hereto (required only if not communicated by the International Bureau).							
	b. 📝 has been communicated by the International Bureau.							
	c. is not required, as the appli	cation was filed in the United States Receivir	ng Office (RO/US).					
6. 📖	An English language translation of the	e International Application as filed (35 U.S.C	. 371(c)(2)).					
	a. is attached hereto.							
7.	Amendments to the claims of the Inte	ernational Application under PCT Article 19 (3	35 U.S.C. 371(c)(3))					
	a. are attached hereto (required only if not communicated by the International Bureau).							
	b. have been communicated by the International Bureau.							
	c. have not been made; however, the time limit for making such amendments has NOT expired.							
	d. have not been made and will not be made.							
8.	An English language translation of th	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).						
9.	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).							
10.	An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).	e annexes of the International Preliminary Ex	amination Report under PCT					
Items 11 to 20 below concern document(s) or information included:								
11.	An Information Disclosure Statement	under 37 CFR 1.97 and 1.98.	·					
12.	An assignment document for recording	g. A separate cover sheet in compliance with	n 37 CFR 3.28 and 3.31 is included.					
13.	A preliminary amendment.							
14.	An Application Data Sheet under 37 CFR 1.76. 3 pages							
15.	A substitute specification.							
16.	A power of attorney and/or change of address letter.							
17.	A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.							
18.	A second copy of the published International Application under 35 U.S.C. 154(d)(4).							
19.		e translation of the international application u						
20. 🔽	Copy of PCT application no. PCT/US2003/038190 as filed - 66 pages, Form PCT/IB/301  Other items or information: Notification of Receipt of Record Copy - 3 pages							

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



## JC13 Rec'd PCT/PTO 19 APR 2005

PTO-1390 (Rev. 02-2005)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

The following fees field been stibillitied  21.     Basic national fee	U.S. APPLICATIO	U.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.				ATTORNEY'S DOCKET NUMBER			
21.	10/531772 PCT/US2003/038190			20030076-US					
22.   Examination fee	•					CALCULATIONS	PTO USE ONLY		
22.   Examination fee   If International presiminary examination report propared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4)	21. A Basic national fee\$300				\$ 300	1			
Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.   \$100	If International pre PCT Article 33(	liminary examir l)-(4)							
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium. The fee is \$250 for each additional 50 sheets of paper or fraction thereof.    Total Sheets   Extra Sheets   Extra Sheets   Number of each additional 50 of fraction thereof.	Search fee (37 CFF International International Searc	R 1.445(a)(2)) h I Searching Au h Report prepa	s 100						
sequence listing or computer program listing filled in an electronic medium).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets  Extra Sheets  Number of each additional 50 or fraction thereof.  100 =   50   =   x \$250   s 0    Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).  CLAIMS  NUMBER FILED  NUMBER EXTRA  RATE  Total claims  30 - 20 = 10   x \$50   \$500    Independent claims  6 - 3 = 3   x \$200   \$600    MULTIPLE DEPENDENT CLAIM(s) (if applicable)   + \$360   \$50    TOTAL OF ABOVE CALCULATIONS = \$1700    Applicant claims small entity slatus. See 37 CFR 1.27. Fees above are reduced by ½.  0   SUBTOTAL = \$1700    Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE =   \$1700    Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31), \$40.00 per property   +    TOTAL FEES ENCLOSED =   \$1700    Amount to be refunded:   \$ Amount to be charged:   \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	т	TAL OF 21, 2	2 and 23 =			\$ 600			
thereof (round up to a whole number)  -100 =   150 =   x \$250   \$ 0  Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest (alimed priority date (37 CFR 1.492(h)).  CLAIMS   NUMBER FILED   NUMBER EXTRA   RATE   \$  Total claims   30 - 20 =   10   x \$50   \$500    Independent claims   6 - 3 =   3   x \$200   \$600    MULTIPLE DEPENDENT CLAIM(S) (if applicable)   + \$360   \$0    Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.   0    Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.   0    Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).   Total National Fee   \$ 1700    Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property   \$ 0    TOTAL FEES ENCLOSED   \$ 1700    Please charge my Deposit Account No. 190130   in the amount of \$ 1700   to cover the above fees. A duplicate copy of this sheet is enclosed.  A check in the amount of \$ 0   to cover the above fees is enclosed.  The Commissioner is hereby authorized to charge any additional fees which may be required, or cradit any overpayment to Deposit Account No. 190130   A duplicate copy of this sheet is enclosed.  The Commissioner is hereby authorized to charge any additional fees which may be required, or cradit any overpayment to Deposit Account No. 190130   A duplicate copy of this sheet is enclosed.  The Commissioner is hereby authorized to charge any additional fees which may be required, or cradit any overpayment to Deposit Account No. 190130   A duplicate copy of this sheet is enclosed.  Fees are to be charged to a cradit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37	sequence listing	ng or computer	program listing fi	led in an electronic medium).	excluding				
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(th)).  CLAIMS  NUMBER FILED  NUMBER EXTRA  RATE  \$  Total claims  30 -20 = 10	Total Sheets	Extra Sheets	Number of eac thereof (round	ch additional 50 or fraction <b>up</b> to a whole number)	RATE				
CLAIMS NUMBER FILED NUMBER EXTRA RATE \$  Total claims 30 - 20 = 10	- 100 =	/50 =	;		× \$250	<b>\$</b> 0			
Total claims 30 - 20 = 10	Surcharge of \$130. claimed priority date	00 for furnishing (37 CFR 1.49)	g the oath or dec 2(h)).	aration later than 30 months f	rom the earliest	<sup>\$</sup> 0			
Independent claims 6 -3 = 3	CLAIMS	NUMB	ER FILED	NUMBER EXTRA	RATE	\$	<del></del>		
Independent claims 6 -3 = 3	Total claims	3	0 - 20 =	10	× \$ 50	\$ 500	T		
MULTIPLE DEPENDENT CLAIM(S) (if applicable)	Independent claims	6	-3=	3	x \$200		<del>                                     </del>		
TOTAL OF ABOVE CALCULATIONS = \$ 1700  Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.  SUBTOTAL = \$ 1700  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE = \$ 1700  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property	MULTIPLE DEPEN	DENT CLAIM(S	(if applicable)				<u> </u>		
Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.  SUBTOTAL = \$ 1700  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE = \$ 1700  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$ 0  TOTAL FEES ENCLOSED = \$ 1700  Amount to be refunded: \$ Amount to be charged: \$ \$ 0  Please charge my Deposit Account No. 190130 in the amount of \$ 1700 to cover the above fees. A duplicate copy of this sheet is enclosed.  C. Please charge my Deposit Account No. 190130 in the amount of \$ 1700 to cover the above fees.  A duplicate copy of this sheet is enclosed.  C. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 190130 . A duplicate copy of this sheet is enclosed.  d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.				TOTAL OF ABOVE					
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE = \$ 1700  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$ 0  TOTAL FEES ENCLOSED = \$ 1700  Amount to be refunded: \$ Amount to be charged: \$ \$ 0  A check in the amount of \$	Applicant claim	s small entity st	atus. See 37 CF						
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).  TOTAL NATIONAL FEE = \$ 1700  Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property									
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Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + \$0  TOTAL FEES ENCLOSED = \$1700  Amount to be refunded: Amount to be charged: \$  A check in the amount of \$ to cover the above fees is enclosed.  D. Please charge my Deposit Account No. 190130 in the amount of \$1700 to cover the above fees. A duplicate copy of this sheet is enclosed.  C. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 190130. A duplicate copy of this sheet is enclosed.  d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.			\$ 1700						
Amount to be refunded:  Amount to be charged:  a. A check in the amount of \$	Fee for recording the by an appropriate co	e enclosed assi over sheet (37 (	gnment (37 CFR CFR 3.28, 3.31).	1.21(h)). The assignment mu \$40.00 per property	st be accompanied +	•			
Amount to be refunded:  Amount to be charged:  a. A check in the amount of \$			78	TOTAL F	EES ENCLOSED =	\$ 1700			
A check in the amount of \$	TOTAL PEES ENGLOSED =					Amount to be	\$		
b. Please charge my Deposit Account No. 190130 in the amount of \$ 1700 to cover the above fees.  A duplicate copy of this sheet is enclosed.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 190130. A duplicate copy of this sheet is enclosed.  d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.  NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.						Amount to be	\$		
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and granted to restore the International Application to pending status.	NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed								
SEND ALL CORRESPONDENCE TO:	and granted to restore the International Application to pending status.								
	SEND ALL CORRES	PONDENCE T	I Cha						
Customer No. 42716  SIGNATURE		2716	1 - m						
Maine & Asmus PO Box 3445 Scott J. Asmus			hus						
Nashua, NH 03061-3445 NAME	Nashua, NH 030								
United States of America 42,269 REGISTRATION NUMBER			N NUMBER						

10/531772

JC13 Rec'48CT/PTO 19 APR 2005

PCT INTERNATIONAL APPLICATIO	N TRANSMITTAL LETTER	10030076 · 8
TRANSMITTAL DATE:	25 NOVEMBER 2003	RCVD: _11/3万/0分
REGARDING THE APPLICATION OF:	BAE SYSTEMS INFORMATION ELECTRONIC SYSTEMS INTEGRATION INC	RSPBY: & RCVDBY: 
INTERNATIONAL APPLICATION NO.		CAL:
INTERNATIONAL FILING DATE:	HEREIN	DKT:
ATTORNEY DOCKET NO:	20030076-PCT	NOTICE:
ENTITLED: JOINT SYMBOL, AMPLITUDE, A	ND RATE ESTIMATOR	T/S
EXPRESS MAIL CERT: EL 962 755 142 US	DATE: 25 November 2003	

I certify that this application is being deposited with the U.S. Postal Service EXPRESS MAIL POST OFFICE TO ADDRESSEE under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, PO Box 1450, Alexandria, VA 22313-1450.

[Y] Scott J. Asmus, Reg. No. 42,269 [] Neil F. Maloney, Reg. No. 42,833 [X] Debra A. Stengel ligned

To the United States Receiving Office (RO/US):

Accompanying this transmittal letter is the above-identified application comprising <u>6</u> page PCT Easy Request, <u>2</u> page PCT Easy Fee Calc Sheet, 1 floppy disk of PCT Easy application forms, <u>1</u> page executed Power of Attorney-Applicant, <u>1</u> page executed General Power of Attorney-Applicant/Inventor, <u>48</u> pages of Specification and Claims, <u>6</u> sheets of Drawings. The following requests are made of the RO/US:

- 1. [X] PREPARATION AND TRANSMITTAL OF CERTIFIED COPY OF PRIORITY DOCUMENTS- Please prepare and transmit to the International Bureau a certified copy of the United States origin priority documents identified in Box VI of the Request form (37 CFR 1.451).
- 2. [X] DISCLOSURE INFORMATION-- In order to assist in screening the accompanying International application for purposes of determining whether a license for foreign transmittal should and could be granted, the following information is supplied:
  - A. [ ] There is no prior filed application relating to this invention.
  - B. [X] There is one prior application, US 60/462,657, filed 14 April 2003 which contains subject matter that is
    - 1. [ ] substantially identical to that of the accompanying International application.
    - 2. [ ] less than that of the accompanying International application. The additional subject matter of the International application appears on pages(s) and line(s)\_\_\_\_\_
    - 3. more than that of the accompanying International application.
  - C. [ ] Disclosure information cannot be covered by the language of Points 2A or 2B above due to the involvement of several prior applications or for other reasons. A separate sheet on which the disclosure information is explained is attached to this transmittal letter.

10/531772 JC13 Read PCT/PTO 19 APR 2005

3. [X] REQUEST FOR PREIGN TRANSMITTAL LICENSE-- According to the provisions of 35 USC 184 and 37 CFR 5.11, a license to transmit the accompanying International application to foreign agencies or international authorities is hereby requested.

4. [X] The Office is herby authorized to charge deposit account 190130, the amount of \$2,168.00 to cover above filing fees, and any deficiency or credit any overpayment in the fees to the above deposit account, owned by BAE SYSTEMS Information and Electronic Systems Integration Inc. an authorized signator for which is Kevin M. Perkins, V.P. & Company Counsel, and for whom the undersigned are authorized agents.

Date: 4 35 NOU 2003

Maine & Asmus PO Box 3445 Nashua, NH 03061-3445

Tel. No. (603) 886-6100, Fax. No. (603) 886-4796

Info@maineandasmus.com

Scott J. Asmus, Keg. No. 42,269 Neil F. Malone, Reg. No. 42,833

Andrew P. Cernota, Reg. No. 52,711

Attorneys/Agents for Applicant

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: MCELWAIN, Thomas P.

Group Art Unit:

Serial No.

Examiner:

Filed:

Herein

Atty. Dkt. No: 200300076-US

For:

JOINT SYMBOL, AMPLITUDE, AND RATE ESTIMATOR

To:

Mail Stop PCT

Fm:

42716

Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

CERTIFICATE OF MAILING 37 CFR 1.10: I certify that this correspondence is being deposited on the below date with the U.S. Postal Service with sufficient postage as EXPRESS MAIL POST OFFICE TO ADDRESSEE addressed to: Mail Stop PCT, Commissioner for Patents, PO Box 1450 Alexandria, VA 22313-1450.

Debra A. Stengel or [ ] Andrew P. Cernota, Reg.

Dear Honorable Commissioner:

## TRANSMITTAL COVER SHEET

Submitted herewith, pursuant to 35 U.S.C. 371, is a US National Stage Patent Application of International Application No. PCT/US2003/038190 consisting of:

2 pages Transmittal Letter To The United States Designated/Elected Office Concerning a Filing Under 35 U.S.C. 371,

3 pages Application Data Sheet,

66 pages copy of PCT application as filed,

3 pages Form PCT/IB/301 Notification of Receipt of Record Copy.

DEPOSIT ACCOUNT **190130** AUTHORIZATION – The Office is hereby authorized to charge the required fee, and any deficiency or credit any overpayment in the fees to the above deposit account, owned by BAE SYSTEMS Information and Electronic Systems Integration Inc. an authorized signator for which is Kevin M. Perkins, V.P. & Company Counsel, and for whom the undersigned are authorized agents.

Respectfully submitted,

Cus. No. 42716 Maine & Asmus PO Box 3445 Nashua, NH 03061-3445

Tel. No. (603) 886-6100, Fax. No. (603) 886-4796

Info@maineandasmus.com

Scott J. Asmus, Reg. No. 42,269 Andrew P. Cernota, Reg. No. 52,711

Attorneys/Agents for Applicant